

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 536791

AGENCY REVIEW: _____

DATE 4/12

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 5 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) DONALD S. & JUDITH ANN MARIE PROIA

DAYTIME PHONE N/A CELL (301) 854-0244 FAX N/A

MAILING ADDRESS 13630 NICHOLS DRIVE, CLARKSVILLE, MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT JEREMY KUTTER

DAYTIME PHONE N/A CELL (410) 982-2882 FAX N/A

MAILING ADDRESS P.O. BOX 126, LISBON, MD 21765
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME CLIFTON C. LINK PROPERTY LOT NO. 10

PROPERTY ADDRESS 13630 NICHOLS DRIVE, CLARKSVILLE, MD 21029
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 9 PARCEL(S) 368 PROPOSED LOT SIZE 3 AC.

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. Jeremy Kutter
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P _____

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

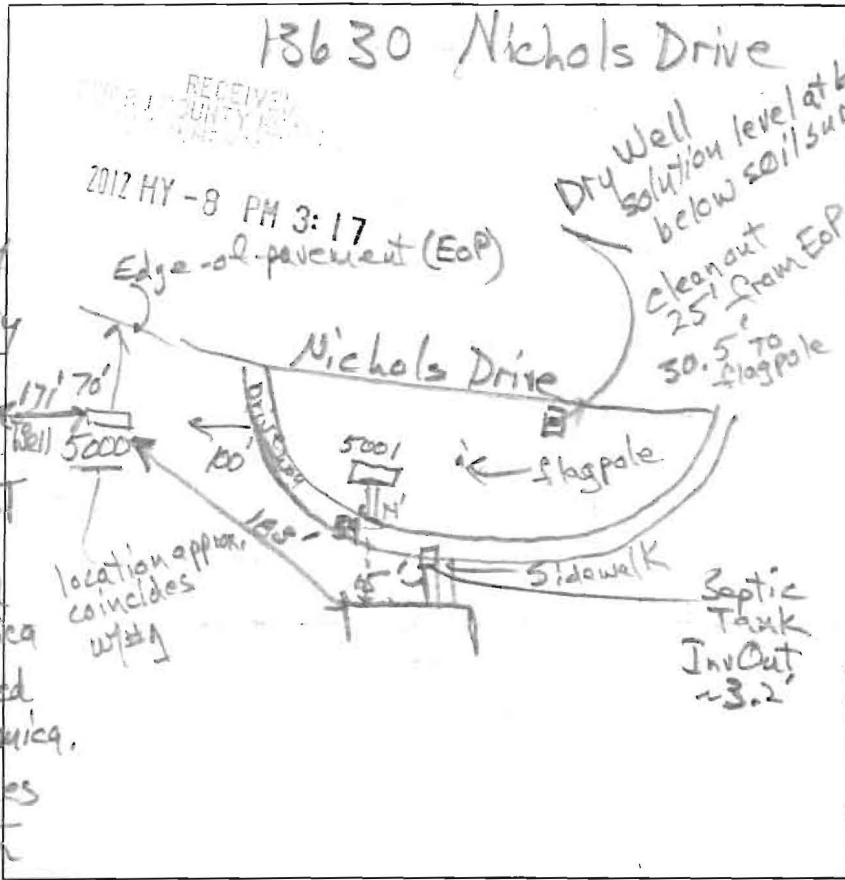
REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WMDH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

13630 Nichols Drive



5000

0.4' dk brn sl, sm
 1.7' yel-brn scl
 2msbk slightly sticky
 1.7' yel-brn scl
 slightly sticky
 2.9' yel-brn L
 7msbk
 to brn L sm
 5' yel-red brn sl
 common mica
 brn & yel-red
 sl, common mica
 1.9' brn & pale red
 sl, many fine mica.
 12' → few stones
 12.7' yel-red & h. brn
 ls, many mica.
 red ls 7 fpl
 many mica
 15'

5001

brn & yel-brn
 sl, f3p (grey)
 2 fpl discontinuous
 7.5' dk brn scl
 2' 2msbk
 2' yel-brn
 scl, 1msbk
 2.8' yel-brn L
 sm
 3.8' brn sl
 common mica
 4.6' brn & yel-red
 sl, many mica
 7.5' h brn & pale yel-red
 sl, c2p white
 9.8' h. brn ls
 many mica
 1 fpl, discontinuous
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/21/12	5000	15'	Visual	sidewall ok 5 to 11'	1.2 gpd / 10'		P
6/21/12	5001	14'	Visual	sidewall ok 4-9.5' to 10'	2.2 gpd / 10'		P

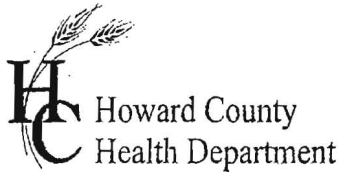
REMARKS Well #40-73-3524;

SANITARIAN RB BACKHOE Chuck Zapp OTHERS _____

TEST HOLES USED IN SDA 5000 & 5001 AVG. PERC TIME < 5 min SQ. FT/BR 125

TRENCH WIDTH 20.3 INLET DEPTH 4 MAX. BOT DEPTH 10 EFFECTIVE SW 5-5.5

6" Metal well casing is 3' above soil grade; 2-pc metal cap; back pipe as
 conduit 5' long
 in support



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APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME CLIFTON C. LINK PROPERTY LOT NO. 1

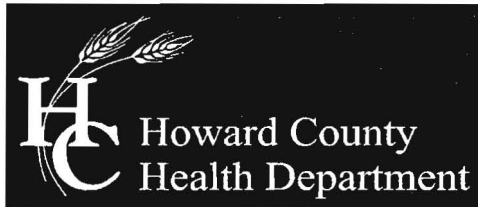
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STREET TOWN/POST OFFICE

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TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



Peter L. Beilenson, M.D., M.P.H., Health Officer

May 2, 2012

To: **Jeremy Rutter, Applicant**
Jeremy@rutterpm.com

RE: **Perc Test Report, PROPOSED LOT 10, PROIA PROPERTY, [a re-subdivision of Clifton C. Link Property, Lot 1], receipt number A536791**

Percolation testing was conducted on the referenced property on April 20, 2012. The purpose for conducting these percolation tests was to delineate septic reserve areas for a proposed subdivision of existing Lot 1.

All percolation tests conducted were infiltrometer tests conducted in the soil layer most restricting to infiltration in the upper 24 inches of the soil profile. The test was a 'falling head' test measuring rate of infiltration in minutes per inch after an equilibration period. Soil conditions either satisfactory or unsatisfactory for onsite wastewater disposal were observed at each of eight test locations on the subject property. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drainfield (or sand mound) and two repair drainfields (or sand mounds) for the planned residence.

Soil conditions observed were satisfactory for onsite wastewater treatment and disposal on the proposed lot. A test location ('4009') was added to pair with location '4005' and represent a sand mound area which Passed with an infiltration rate of 40 minutes per inch. Locations 4001A and 4002 A represent a second sand mound area that Passes with an infiltration rate of 40 minutes per inch. A third sand mound area represented by locations '4007' and '4008' Passes with an infiltration rate of 24 minutes per inch.

Seasonal water table was observed at 23 inches at test location '4004', thus that location Failed. Infiltration rate greater than 60 minutes per inch occurred at location '4006'; therefore that location Failed and the proposed sand mound area represented by '4004' and '4003'(which was not tested) Failed.

For approval as a septic reserve serving the proposed lot, all three of the approvable sand mound areas are to be enclosed within a septic reserve area which will also include the area downslope of each sand mound for a distance of 25 feet. The plan showing this proposal is a Percolation Certification Plan. Other required content includes three (3) well locations or a 1500 square-foot wellbox, a building envelope 55' x 75', proposed lot line, the building restriction limits, soil map unit delineations (2008 Soil Survey of Howard County), 2-foot elevation contours and 1-foot elevation contours in the area of the proposed sand mounds.

On the proposed Lot 11 where the existing residence is located, a 10,000 square foot septic reserve is to be presented on the Percolation Certification Plan along with the existing well and two alternate well locations (or a 1500 square-foot wellbox). The footprint of the house and all other structures need to be shown on the plan. The pond and any streams or wetlands also should be shown.

The Health Department has a file for the existing property. Percolation tests were conducted in 1976 to define a septic reserve area for the residence, however soil profiles were not recorded and the Health Officer did not certify the area. To be approved, a Percolation Certification Plan that includes the area of the existing residence will have to include soil profile

descriptions that support the reserve area defined by those tests. The location of the area and the tests conducted on 1976 may be observed on the building permit proposal that is also a part of the Health Department file.

Field data collected are shown on two Percolation Test Worksheets enclosed with this letter. Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for the drainfield parameters will be documented during the Percolation Certification Plan process, and then maintained in the Health Department file for the subject property.

If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan or Site Plan, please contact me at the above address or by calling (410) 313-2691.

Respectfully,



Robert Bricker, CPSS, REHS/RS
Environmental Sanitarian
Well and Septic Program

Enclosures (6)

Copy: Donald Proia, owner
File

MOUND TEST DATA SHEETS

Clifton C. Link

Property I.D. Proin Lot # 10 Date 4/20

Sanitarian RB Landscape Position Sideslope

% Slope 4% Soil Type _____ Contractor Chuck Zapp/Jeremy Rutter

HOLE # 4001A DEPTH OF TEST 15" START TIME 2:52

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10YR 5/4 dry 3 fg many roots	9 10/16	0	—	—	—
3"	9 11/16	12	5/16	38.4	—
10YR 4/6 dry 2 fsbk, many roots	9 6/16	12	5/16	38.4	—
7"	9 2/16	10	4/16	40	4.2
	8 14/16	10	4/16	40	0
	8 10/16	10	4/16	<u>40</u>	0

3:04
3:16
3:26

PASS

10YR 5/8
2 msbk loam slightly sticky few mica

25"

10YR 5/6 sel
8.5YR 5/6
many fine mica

29"

10YR 5/8
2.5YR 4/8
many fine mica

31"

old 10YR 7/1 & 10YR 8/2
old 10YR 2/2 (M.N.)

36" to 8.5'
Clay loams
8.5' mottled sl water at 2'
Begin equilibration 2:30

HOLE # 4002 A DEPTH OF TEST 14" START TIME 3:48

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10YR 4/4 dry 3 fg, many roots	9 16/16	0	—	—	—
3"	9 4/16	12	12/16	16	—
10YR 4/4 dry 2 v fsbk many roots	8	24	20/16	19.2	—
7"	7 7/16	15	9/16	26	—
	7 1/16	10	6/16	26	—
	8 14/16	5	2/16	<u>32</u>	—

4:00
4:24
4:39
4:49
4:54

PASS

10YR 5/8 & 10YR 6/6
st 1, c. mica

32"

5YR 5/8 & 10YR 6/3 grl
common mica

36"

Begin equilibration 3:25

MOUND TEST DATA SHEETS

Property I.D. Clifton C. Link Lot # 10 Date 4/20/2012
Proia

Sanitarian RR Landscape Position _____

% Slope 4% Soil Type _____ Contractor Chuck Zapp / Jeremy Ritter

HOLE # 4004 DEPTH OF TEST _____ START TIME _____

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10YR 6/3 (dry) loam 3fg 7"					
10YR 5/6 loam 2fsbk 13"					
10YR 5/6 loam c2p 10YR 6/3 Common mice					
10YR 5/8 & 10YR 6/3, c1 ft 10YR 7/2 23"					
7.5 YR 5/8 23" MRP 10 YR 6/2 grscl 30"					

Fail, perched water

HOLE # 4009 DEPTH OF TEST 12" START TIME 4:18

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10YR 5/4 dry loam 3fg many roots 3"	9 16/16				
10YR 5/4 dry 3fsbk 7"	9 2/16	12	8/16	24	
7.5 YR 5/6 loam 1msbk 16"	8 2/16	12	6/16	32	
10YR 5/6 1msbk loam 27"	8 19/16	10	4/16	40	
7.5 YR 5/8 & 10YR 6/3 c2p 10YR 2/2 (Hw) loam 36 - 48"	8 13/16	5	2/16	40	

54% moist
grscl
c2p Mm
7.5 YR 5/8
7.5 YR 6/2

Begin equilibration 4:12

Pass

MOUND TEST DATA SHEETS

Property I.D. Clifton C. Link Lot # 10 Date 4/20/2012

Sanitarian RB Landscape Position Sideslope - foot slope

% Slope 4% Soil Type _____ Contractor Chuck Zapp / Jeremy Rutter

HOLE # 4006 DEPTH OF TEST 16" START TIME 11:26

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10YR 6/4 (dry)	9 4/16	Begin	0	—	—
10am 3fg To 3vrsbk	9 7/16	30	9/16	53	—
	9 5/16	10	2/16	80	-33.75
10YR 5/8	9 2/16	10	3/16	53	+33.75
3fsbk & msbk	8 15/16	10	3/16	53	0
slightly sticky	8 11/16	20	4/16	80	-33.75
few gravel	8 9/16	10	2/16	80	0
	8 7/16	10	2/16	80	0

Fail

31" above boundary (~22"); ~35% gravel
 Begin Equilibration, 10:55
 3p 2.5Y 6/3 grs (heavy)
 c# 2.5V 6/1
 35"

HOLE # 4005 DEPTH OF TEST 11" START TIME 11:55 Reset/restart 12:05
Gauge moved

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
7.5YR 5/3 (dry)	9 10/16	Begin	0	—	—
lean 3fg	9 5/16	10	11/16	14.5	—
7.5YR 5/8	8 12/16	10	9/16	17.7	+22
3fsbk grl	7 12/16	20	16/16	20	+13
common fine roots	7 3/16	17	9/16	21.3	+6.5
7.5YR 5/8 & 10YR 6/4	Abort Test - Reset Infiltrator				
fid 10YR 2/2 (m)					

12:05
12:15
12:35
12:45
Soil moist around base

10YR 6/3
2 m pl and 7.5YR 5/8
m 7d 10YR 2/2 (m)

Begin equilibration, 11:34

MOUND TEST DATA SHEETS

Clifton C. Link
Proia

Property I.D. Proia Lot # 10 Date 4/20/2012

Sanitarian RB Landscape Position Sideslope

% Slope 4% Soil Type _____ Contractor Chuck Zepp / Jeremy Rutter

HOLE # 4007 DEPTH OF TEST 18" START TIME 2:45

min/inch

60" 7.5YR 4/14 dry
3fg, loam
many roots

9" 7.5YR 4/16 dry
3fsbk loam
many fine roots

24" 5YR 5/6 grcl
2msbk few
few stones mica

35" C2p 10YR 2/2 (Mn)
common mica
few gravel

45" 7.5YR 5/6 cl, 1fsbk
2p 10YR 2/2 (Mn)

48" 7.5YR 5/6 cl more dense & m
many fine mica

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 16/16	0	—	—	—
9 2/16	15	14/16	17.14	—
8 6/16	15	12/16	20	-16.7
7 12/16	15	14/16	17.14	+14.3%
7 2/16	15	10/16	24	—
6 11/16	10	2/16	22.8	—
6 2/16	6	4/16	24	—
6 3/16	6	4/16	(24)	—

3:15
3:30
3:45
3:55
4:01

Pass

Begin equilibration, 2:05

HOLE # 4008 DEPTH OF TEST 19" START TIME 2:49

min/inch

10YR 5/4 dry
3fg many fine
loam roots

4" 10YR 5/4 dry
grl, 2fsbk

12" 7.5YR 5/6
grscl 2msbk
few mica
few roots

28" 7.5YR 5/8 scl
& 5YR 5/6
2p 10YR 2/2 (Mn)
common mica

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 16/16	0	—	—	—
8 1/16	15	2"	7.5	—
6 12/16	10	20/16	8	-6.7
5 10/16	10	18/16	8.88	-11
Reset gauge				
8 16/16	0	—	—	—
8 4/16	6	12/16	8	+10
7 4/16	10	10/16	10	—
5 19/16	12	24/16	9.7	—
4 12/16	12	18/16	10.6	—

3:04
3:14

Pass

3:26
3:32
3:42
3:54
4:06

Begin equilibration, 2:15

Reset gauge

Don Proia
13630 Nichols Drive
Clarksville, Maryland 21029
301-854-2118
don@proias.com

April 19, 2012

Mr. Jeff Williams
Supervisor - Well and Septic Program
Howard County Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, MD 21046

RE: Proia Property – Percolation Testing Fees

Dear Mr. Williams:

Mr. Bricker, a sanitarian in your department, has reviewed a Perc Plan to perform sand mound testing on my property and has scheduled testing for April 20, 2012. I have submitted the appropriate testing fee for the single lot that I hope to subdivide. Mr. Bricker has reviewed the previous information on my property and has mentioned that he may want to take a look at the soil around my existing septic system, which may require the payment of a second perc testing fee. I am writing to request an exemption from the payment of a second perc testing fee.

As you already know, from the Health Department Records, my current system went through the entire Health Department process and a permit was issued on March 7, 1988 to "repair system as needed for a four bedroom house." (See attached Permit and other Health Department data)

Mr. Bricker has mentioned that the percolation test report, done by a previous sanitarian, did not appear to include soil descriptions of the perc test pits. I am requesting a waiver of the second perc fee since fees were already paid when I went through the permitting process for my existing system. My existing septic system was installed only after receiving the appropriate approvals from the Health Department. I feel as though I should not be penalized because a previous sanitarian did not include a soil description as part of approving my septic installation permit.

Sincerely,



Donald Proia

SAND MOUND CALCULATIONS

Total mound width:	<u>27.5</u>	feet
Total mound length:	<u>104.4</u>	feet

SITE SPECIFIC INFORMATION

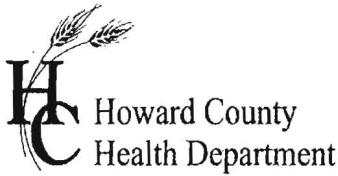
Slope Percent:	<u>4</u>	%
Z- Restictive Depth to rock or water:	<u>36</u>	inches
Percolation Rate:	<u>40</u>	minutes/inch
Design Flow:	<u>750</u>	gallons per day

BED/MOUND CALCULATIONS

Design infiltration rate for sand (1.2 for comar sand spec or 1.0 for alt sand spec):	<u>1</u>	gal. per sq. ft. per day
Absorption bed: Design flow / Design infiltration rate =	<u>750</u>	square feet
A- Bed width (12 for comar sand/less than 9 for alt sand):	<u>9.00</u>	feet
B- Bed length: Absorption bed (sq.ft)/Bed width (ft) = (21 to 101 feet)	<u>83.33</u>	feet
D- Upslope sand fill depth: 48 in - Z =	<u>12</u>	inches
E- Downslope sand fill depth: 12 A x % slope + D in. =	<u>16</u>	inches
H- Cap + topsoil at bed center =	<u>18</u>	inches
G- Cap + topsoil at bed edge =	<u>12</u>	inches
F- Total Bed Depth:	<u>10</u>	inches
K- Sideslope setback: { ([(D + E) / 2] + 28 in.) / 12 } x 3 =	<u>10.54</u>	feet
Upslope correction factor (from chart):	<u>0.89</u>	
J- Upslope setback: ((22 in + D) / 12) x 3 x Upslope corr. Factor =	<u>7.57</u>	feet
Downslope correction factor (from chart):	<u>1.14</u>	
I- Downslope setback: ((22 in + E) / 12) x 3 x Downslope corr. Factor =	<u>10.92</u>	feet
W- Preliminary Width of Mound: A + J + I =	<u>27.5</u>	feet
L- Total Length of Mound: B + 2K =	<u>104.4</u>	feet

LOADING RATE AND BASAL AREA CALCULATIONS

Linear loading rate: Design flow / Bed Length =	<u>9.0</u>	gallons per linear ft.
Soil infiltration rate based on percolation rate:	<u>0.75</u>	gal. per sq. ft. per day
Basal area required: Design flow / infiltration =	<u>1000</u>	square feet
Basal area provided with preliminary width: Level Site = L x W; Slope Site (A+I)xB	<u>1660</u>	square feet



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PROPERTY OWNER(S) DONALD S. & JUDITH ANN MARIE PROIA

DAYTIME PHONE N/A CELL (301) 854-0244 FAX N/A

MAILING ADDRESS 13630 NICHOLS DRIVE, CLARKSVILLE, MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT JEREMY RUTTER

DAYTIME PHONE N/A CELL (410) 982-2882 FAX N/A

MAILING ADDRESS P.O. Box 126, LISBON, MD 21765
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME CLIFTON C. LINK PROPERTY LOT NO. 1

PROPERTY ADDRESS 13630 NICHOLS DRIVE, CLARKSVILLE, MD 21029
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 9 PARCEL(S) 368 PROPOSED LOT SIZE EXISTING LOT

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. Jeremy Rutter
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

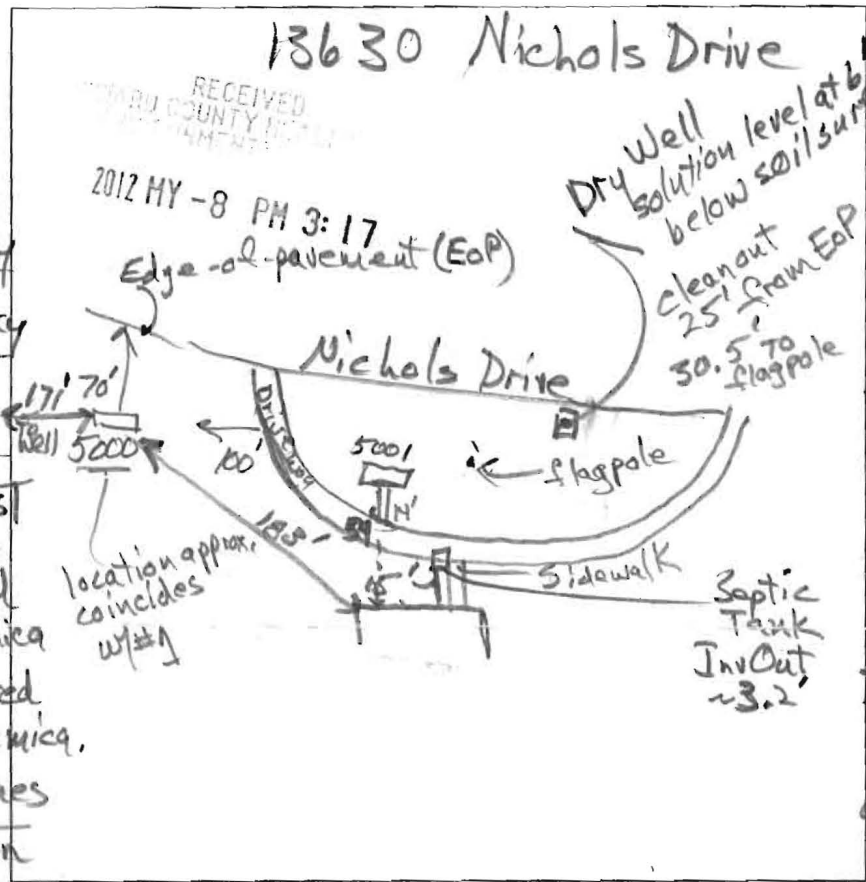
AVP

13630 Nichols Drive

RECEIVED
STARR COUNTY DISTRICT
PLANNING DEPARTMENT

2012 MY - 8 PM 3:17

Dry Well solution level at 6'
below soil surface
cleanout 25' from EOP
30.5' to flagpole



(5001)

0.4' dk brn sl, sm
 0.7' yel-brn scl
 2msbk slightly sticky
 1.7' yel-brn sl slightly sticky
 2.9' yel-brn L 7msbk
 to brn L sm
 5' yel-red & brn sl
 can fine mica
 brn & yel-red
 10' sl, common mica
 11' brn & pale red
 sl, many fine mica
 12' → few stones
 12' yel-red & h. brn
 ls, many mica
 red ls 7 fpl
 many mica
 15'

dk brn & yel-brn
 sl, f3p (grey)
 7 fpl discontinuous
 1.5' dk brn fsl
 2' 2mspl
 2' yel-brn
 scl, 1msbk
 2.8' yel-brn L
 sm
 3.8' brn sl
 common mica
 4.6' brn & yel-red
 sl, many mica
 7.5' H brn & pale yel-red
 sl, c2p white
 9.8' H. brn ls
 many mica
 1 fpl, discontinuous
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/21/12	5000	15'	Visual	Sidewalk ok	5 to 11'; 1.2 gpd/cr		P
6/21/12	5001	14'	Visual	Sidewalk ok	4-4.5' to 10' 1.2 gpd/cr		P

REMARKS Well #10-73-3524;
 SANITARIAN RB BACKHOE Chuck Zepp OTHERS
 TEST HOLES USED IN SDA 5000 & 5001 . AVG. PERC TIME < 5 min SQ. FT/BR 125
 TRENCH WIDTH 20.3 INLET DEPTH 4 MAX. BOT DEPTH 10 EFFECTIVE SW 5-5.5

6" Metal well casing is 3' above soil grade; 2-pc metal cap; black pipe as conduit SAUG in cap port

MOUND TEST DATA SHEETS

Property I.D. Clifton C. Link Lot # 10 Date 4/20/2012
Proia
 Sanitarian RB Landscape Position Sideslope
 % Slope 4% Soil Type _____ Contractor Chuck Zepp/Jeremy Kutter
 HOLE # 4001A DEPTH OF TEST 15" START TIME 2:52

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 YR 5/4 dry 3 fg many roots 3"	9 16/16	0	—	—	—
	9 11/16	12	5/16	38.4	—
10 YR 4/6 dry 2 fsbk, many roots 3"	9 6/16	12	5/16	38.4	0
	9 2/16	10	4/16	40	4.2
	8 14/16	10	4/16	40	0
	8 10/16	10	4/16	40	0

3:04
 3:16
 3:26
 PASS
 M

10 YR 5/8
 2 msbk loam slightly sticky few mica
 25"
 10 YR 5/6 sel
 7.5 YR 5/6 many fine mica 11
 29"
 10 YR 5/8
 2.5 YR 4/8 st many fine mica
 36"
 old 10 YR 7/1 & 10 YR 8/2
 old 10 YR 2/2 (M.N.)
 36"

36" to 8.5'
 36" clay loams
 8.5' mottled sl water at 9.2'
 Begin equilibration 2:30

HOLE # 4002A DEPTH OF TEST 14" START TIME 3:48

	Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 YR 4/4 dry 3 fg, many roots 3"	9 16/16	0	—	—	—
	9 4/16	12	12/16	16	—
10 YR 4/4 dry 2 v fsbk many roots 3"	8	24	20/16	19.2	—
	7 7/16	15	9/16	26	—
	7 1/16	10	6/16	26	—
	6 14/16	5	3/16	26	—

4:00
 4:24
 4:39
 4:49
 4:54

10 YR 5/6
 2 msbk loam common mica slightly sticky few gravel
 26"
 10 YR 5/8 & 10 YR 6/6
 st 1, c. mica
 32"
 5 YR 5/8 & 10 YR 6/3 grl
 common mica
 36"

Begin equilibration 3:25
 PASS
 M

MOUND TEST DATA SHEETS

Property I.D. Clifton C. Link Lot # 10 Date 4/20/2012
Proia

Sanitarian RB Landscape Position _____

% Slope 4% Soil Type _____ Contractor Chuck Zepp/Jeremy Ritter

HOLE # 4004 DEPTH OF TEST _____ START TIME _____

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change

10YR 6/3 (dry) 7"
 loam 3fg
 10YR 5/6 13"
 loam 2fsbk
 10YR 5/6 loam
 c2p 10YR 6/3
 common mice
 10YR 5/8 & 10YR 6/3, cl
 f1f 10YR 7/2 23"
 7.5 YR 5/8 23"
 MPA 10 YR 6/2 grscl 30"

Fail, perched water


HOLE # 4009 DEPTH OF TEST 12" START TIME 9:18

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 16/16				
9 2/16	12	8/16	24	
9 2 1/16	12	6 1/16	32	
8 14/16	10	4 1/16	40	
8 12/16	5	2 1/16	40	

10YR 5/4 dry
 loam 3fg many roots
 10YR 5/4 dry
 3fsbk
 7.5 YR 5/6
 loam 1msbk
 10YR 5/6
 1msbk loam
 27"
 7.5 YR 5/8 & 10YR 6/3
 c2p 10YR 2/2 (Mm)
 loam
 36 - 48

4:42
 4:52
 4:57
 Pass

5YR 5/6 & 7.5 YR 6/3
 grscl
 Begin equilibration
 4:12

54" moist
 grscl
 c2p Mm
 7.5 YR 5/8
 7.5 YR 6/2

MOUND TEST DATA SHEETS

Property I.D. Clifton C. Link Lot # 10 Date 4/20/2012
 Sanitarian RB Landscape Position Sideslope-foot slope
 % Slope 4% Soil Type _____ Contractor Chuck Zepp / Jeremy Rutter

HOLE # 4006 DEPTH OF TEST 16" START TIME 11:26

10YR 6/4 (dry)
 loam 3fg few gravel
 to 3YR sbk
 10YR 5/8 loam
 3YR sbk & nsbk
 slightly sticky
 few gravel
 7.5YR 5/8 (v. grs)
 3d 7.5YR 6/1
 7.5YR 5/8
 3p 2.5Y 6/3 grs (heavy)
 c+ 2.5Y 6/1

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 1/16	Begin	0	—	—
9 7/16	38	9/16	53	—
9 5/16	10	2/16	80	-33.75
9 2/16	10	3/16	53	+33.75
8 15/16	10	3/16	53	0
8 11/16	20	4/16	80	-33.75
8 9/16	10	2/16	80	0
8 7/16	10	2/16	80	0

31" above boundary (~22"); ~35% gravel

Begin Equilibration, 10:55

Fail

HOLE # 4005 DEPTH OF TEST 11" START TIME 11:55

Reset/restart 12:05
 Gauge moved

7.5YR 5/3 (dry)
 loam 3fg
 7.5YR 5/8
 3YR sbk grl
 common fine roots
 7.5YR 5/8
 & 10YR 6/4
 1d 10YR 2/2 (m)
 10YR 6/3
 2 m pl
 and 7.5YR 5/8
 m 7d 10YR 2/2 (m)

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 1/16	Begin	0	—	—
9 5/16	10	11/16	14.5	—
8 12/16	10	9/16	17.7	+22
7 12/16	20	16/16	20	+13
7 3/16	12	9/16	21.3	+6.5

Abort Test -
 Reset Infiltrator

12:05
 12:15
 12:25
 12:45
 Soil moist around base

Begin equilibration, 11:34

4:05

Reset infiltrometer

4:20
Begin equilibration

Begin 4:30

8 ¹⁴ / ₁₆	0	-			
8 ⁸ / ₁₆	10	8/16	20.5	4:40	
7 ⁸ / ₁₆	20	14/16	20.5	5:00	
7 ⁴ / ₁₆	5	4/16	20	5:05	

P

✓

MOUND TEST DATA SHEETS

Property I.D. Clifton C. Link Proia Lot # 10 Date 4/20/2012

Sanitarian RB Landscape Position Sideslope

% Slope 4% Soil Type _____ Contractor Chuck Zapp / Jeremy Rutter

HOLE # 4007 DEPTH OF TEST 18" START TIME 2:45

3" 7.5VR 4/4 dry
3fg, loam many roots
9" 7.5VR 4/6 dry
3fsbk, loam many fine roots
5VR 5/6 grcl
2msbk few stones mica
24" 7.5VR 5/6
C2P 10VR 2/2 (Mn)
common mica few gravel
35" 7.5VR 5/6 sl, 2fsbk
P3 & 2P 10VR 2/2 (Mn)
45" 7.5VR 5/6 cl more dense @ m
48" many fine mica

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 16/16	0	—	—	—
9 2/16	15	14/16	17.14	—
8 6/16	15	12/16	20	-16.7
7 12/16	15	14/16	17.14	+14.3%
7 2/16	15	10/16	24	—
6 11/16	10	2/16	22.8	—
6 2/16	6	4/16	24	—
6 3/16	6	4/16	(24)	—

3:15
3:30
3:45
3:55
4:01

Pass

Begin equilibration, 2:05

HOLE # 4008 DEPTH OF TEST 19" START TIME 2:49

10VR 5/4 dry
3fg many fine loam roots
11" 10VR 5/4 dry
grl, 2fsbk
12" 7.5VR 5/6
grscl 2msbk few mica few roots
28" 7.5VR 5/8 scl
& 5VR 5/6
P1P 10VR 2/2 (Mn)
common mica

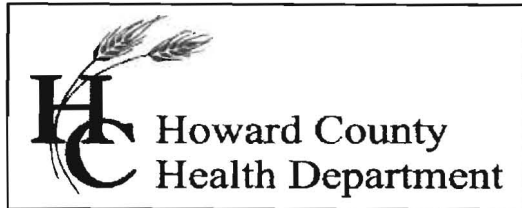
Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 16/16	0	—	—	—
8 11/16	15	2"	7.5	—
6 12/16	10	20/16	8	-6.7
5 10/16	10	18/16	8.88	-11
Reset gauge				
8 16/16	0	—	—	—
8 4/16	6	12/16	8	+10
7 4/16	10	10/16	10	—
5 19/16	12	22/16	9.7	10
4 12/16	12	18/16	10.6	10.6

3:04
3:14

3:26
3:32
3:42
3:54
4:06

Pass

Begin equilibration, 2:15



Office of the Health Officer

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-6300 | Fax: 410-313-6303

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Peter L. Beilenson, M.D., M.P.H., Health Officer

October 9, 2012

To: Paul Clark, GLW, P.A.

From: Robert Bricker, CPSS, REHS/R.S., Environmental Sanitarian
Well and Septic Program

RE: Clifton C Link Property Lot 1 (resubdivision); Perc Cert comment

The following edits are needed on the submitted Percolation Certification Plan.

1. Label the areas (i.e. **the total square footage**) in each of the polygons represented as septic reserve areas on Lots 10 and 11. Please notice that the three sand mounds with downslope infiltration area (on Lot 10 of this proposal) comprise only one septic reserve area.

2. Replace Note 14 with the following:

PRIOR TO SUBMITTAL OF FINAL PLAT MYLAR, THE EXISTING DRY WELL SERVING THE RESIDENCE AT 13630 NICHOLS DRIVE WILL BE PROPERLY ABANDONED. A DISTRIBUTION BOX IS TO BE INSTALLED, CONNECTING TO THE TWO EXISTING TRENCHES. THE HEALTH DEPARTMENT MAY APPROVE THE SUBDIVISION WHEN THE ATTENDING ENVIRONMENTAL SANITARIAN APPROVES THE INSTALLATION OF THE DISTRIBUTION BOX AND THE ABANDONMENT OF THE DRY WELL.

Copy: file

Bricker, Robert

From: Bricker, Robert
Sent: Friday, April 06, 2012 4:47 PM
To: 'jeremy@rutterpm.com'
Subject: Proia proposal

Jeremy, I have not found any documents for 13630 Nichols Drive among Health Department records. If perc results for sand mounds on proposed Lot 10 are good, then the area shown as an existing septic reserve on proposed Lot 11 will need to be proven. An alternative would be if the owner can present copies of the records. If no soil profile was recorded then we will have to record a soil profile. Any type of excavation on a second lot will require payment of a fee for that lot before excavation.

The owner may request a waiver of the fee for the existing lot. To do this, the owner must present a signed written request, and include copies of supporting data. Direct the request to Jeff Williams, Supervisor, Well and Septic Program. Note that if perc tests are required for proposed Lot 11, a waiver of fee is unlikely.

If there are any questions concerning this issue, I should be in the office throughout the coming week. I can hold the following dates for conducting perc tests on proposed Lot 10: 16th, ~~17th~~, 20th, 23rd.

ROBERT BRICKER, CPSS, REHS/RS
ENVIRONMENTAL SANITARIAN SUPERVISOR
DEVELOPMENT COORDINATION SECTION, WELL AND SEPTIC PROGRAM
HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH
7178 COLUMBIA GATEWAY DRIVE
COLUMBIA, MD 21046

410-313-2691; fax, 410-313-2648
rbricker@howardcountymd.gov

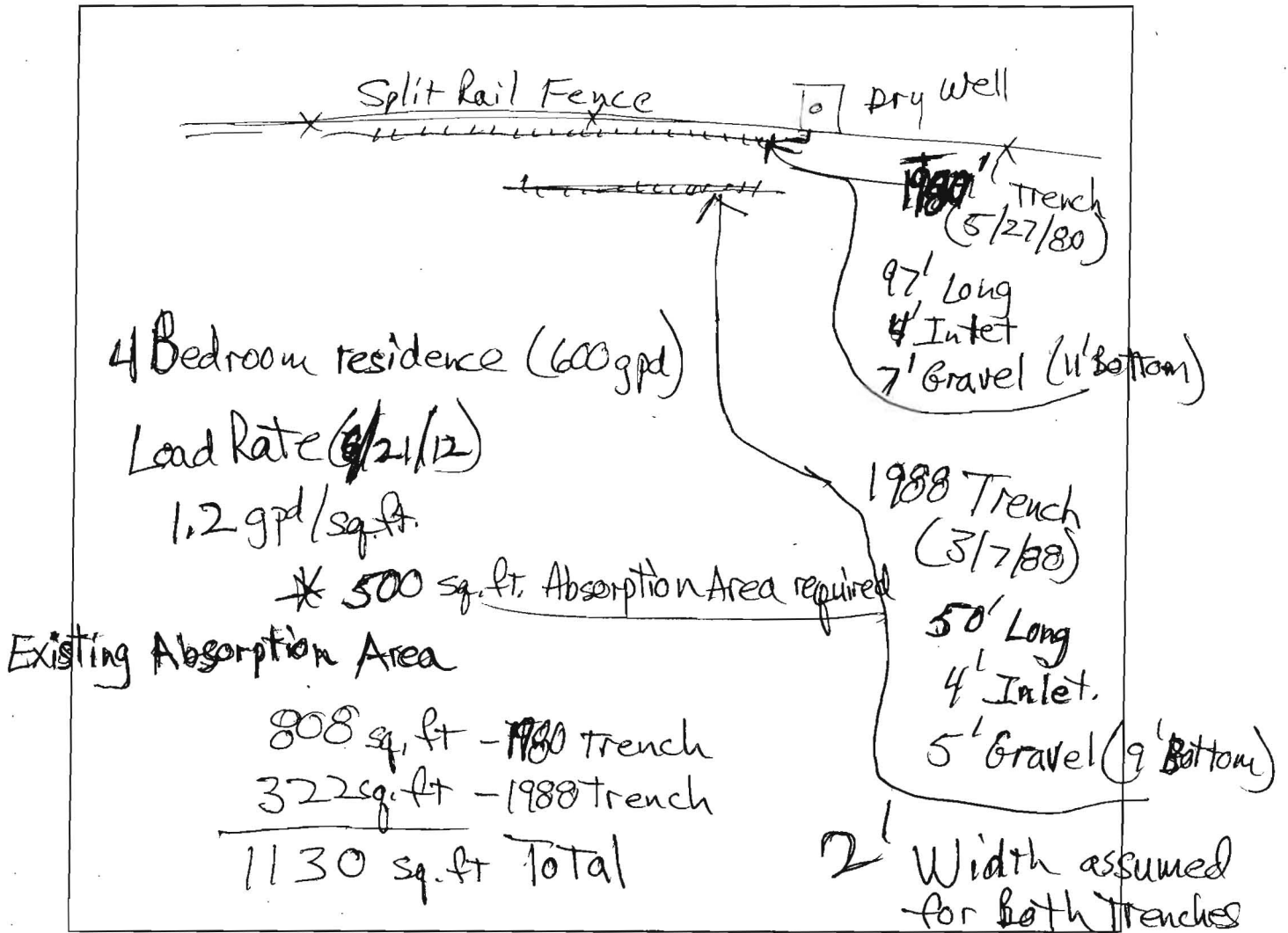
CONFIDENTIALITY NOTICE

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SITE INSPECTION SHEET

OWNER: Donald Proia PHONE #: _____
ADDRESS: 13630 Nichols Drive CONTRACTOR: _____
Clarksville, MD 21029 WELL TAG #: _____
SUBDIVISION: Clifton C. Link LOT: 1 COUNTY #: _____
PROPOSAL: Abandon Dry Well, Install Distribution Box

LOCATION DIAGRAM



COMMENTS: 1130 ft² Absorption Area (total) in 2 Trenches
Abandon dry well; connect two trenches to
Distribution box.

DATE: 10/9/2012 INSPECTOR: Robert Bricker

SITE INSPECTION SHEET

OWNER: Donald Proia PHONE #: _____

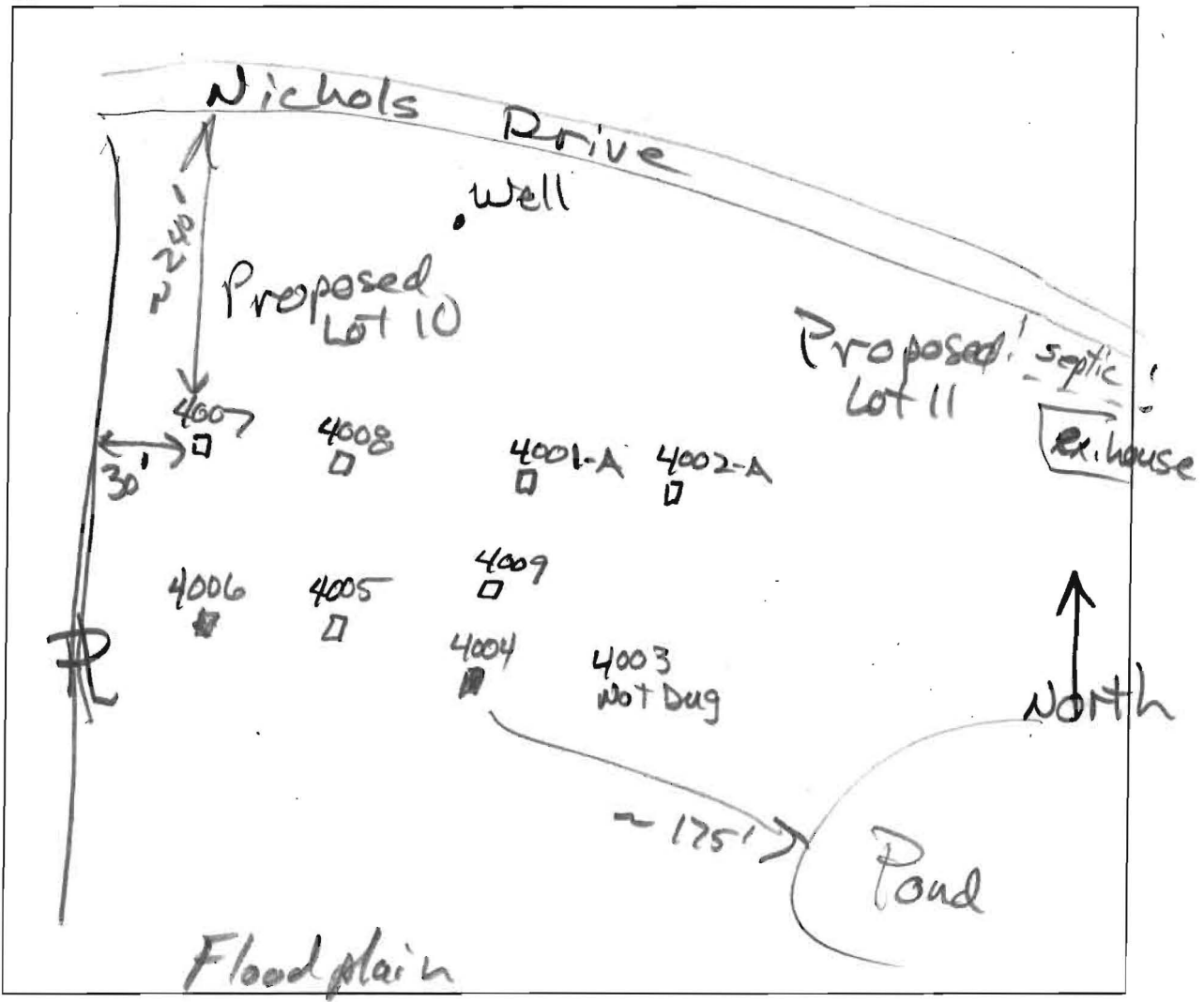
ADDRESS: 13630 Nichols Drive CONTRACTOR: _____

Clarksville 21029 WELL TAG #: _____

SUBDIVISION: Clifton Link LOT: 10 COUNTY #: _____

PROPOSAL: Infiltration tests to establish septic reserve for re-subdivision to lots 10 & 11

completed 4/20/12 LOCATION DIAGRAM



COMMENTS: 2 Tests Fail, #4004 for water table within 24" of surface

6 Tests Pass

DATE: 4/23/12

INSPECTOR: R. Binder

GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ALL EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION AND WELLS WITHIN 200' DOWN GRADIENT OF THE EXISTING AND PROPOSED SEPTIC SYSTEM AND SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- BOUNDARY INFORMATION IS BASED ON AVAILABLE RECORDS.
- PROPERTY TABULATION:
A. TAX PARCEL 368
B. TOTAL ACREAGE: 9.435 AC.
- THE EXISTING WELL IS TO REMAIN.
- THE EXISTING SEPTIC SYSTEM IS TO REMAIN.
- PREVIOUS TEST PIT LOCATIONS ARE SHOWN AS INDICATED IN THE HEALTH DEPARTMENT RECORDS FOR THE SUBJECT PROPERTY.
- TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS (ONE-FOOT INTERVALS IN AREA FOR SAND MOUND LOCATION) AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
- ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS UP HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- THE NEW WELL WHICH WILL SERVE 13630 NICHOLS DRIVE (LOT 11) MUST PASS POTABILITY TEST FOR ISSUE OF ICOP PRIOR TO HEALTH DEPARTMENT SIGNATURE OF FINAL PLAT MYLAR.
- THE SAND MOUND AREAS DELINEATED AND IDENTIFIED ON PROPOSED LOT 10 ON THIS PLAN MUST BE STAKED BY A SURVEYOR AND A FIELD VISIT MADE BY THE HOWARD COUNTY HEALTH DEPARTMENT TO VERIFY THE AREAS HAVE NOT BEEN IMPACTED, PRIOR TO FINAL PLAT APPROVAL AND FOR SUBSEQUENT BUILDING PERMIT APPROVAL. IN ADDITION, THESE AREAS MUST BE PROTECTED BY A FIXED BARRIER AT ALL TIMES DURING DEMOLITION, GRADING, AND CONSTRUCTION ACTIVITIES. THEREAFTER PROTECTIVE MEASURES SHOULD BE IMPLEMENTED TO PROTECT THESE AREAS FROM EROSION AND ENCROACHMENT BY WHEELED VEHICLES. SUBSEQUENT BUILDING PERMIT APPLICATIONS MAY BE DENIED SHOULD THE SAND MOUND AREAS BE EVALUATED AND FOUND TO BE UNSATISFACTORY FOR THE INTENDED USE. IN ADDITION, A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT (IF APPLICABLE) AND SEPTIC SYSTEM INSTALLATION PERMIT.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- PRIOR TO SUBMITTAL OF FINAL PLAT MYLAR, THE EXISTING DRY WELL SERVING THE RESIDENCE AT 13630 NICHOLS DRIVE WILL BE PROPERLY ABANDONED. A DISTRIBUTION BOX IS TO BE INSTALLED, CONNECTING TO THE EXISTING TRENCHES. THE HEALTH DEPARTMENT MAY APPROVE THE SUBDIVISION WHEN THE ATTENDING ENVIRONMENTAL SANITARIAN APPROVES THE INSTALLATION OF THE DISTRIBUTION BOX AND THE ABANDONMENT OF THE DRY WELL.
- THE EXISTING DRIVEWAY SERVING THE RESIDENCE AT 13630 NICHOLS DRIVE IS PARTIALLY WITHIN THE BOUNDARY OF THE SEPTIC RESERVE AND MAY BE DAMAGED IF TRENCHES ARE REQUIRED TO BE INSTALLED IN THE SAME SPACE.

SOIL TYPES

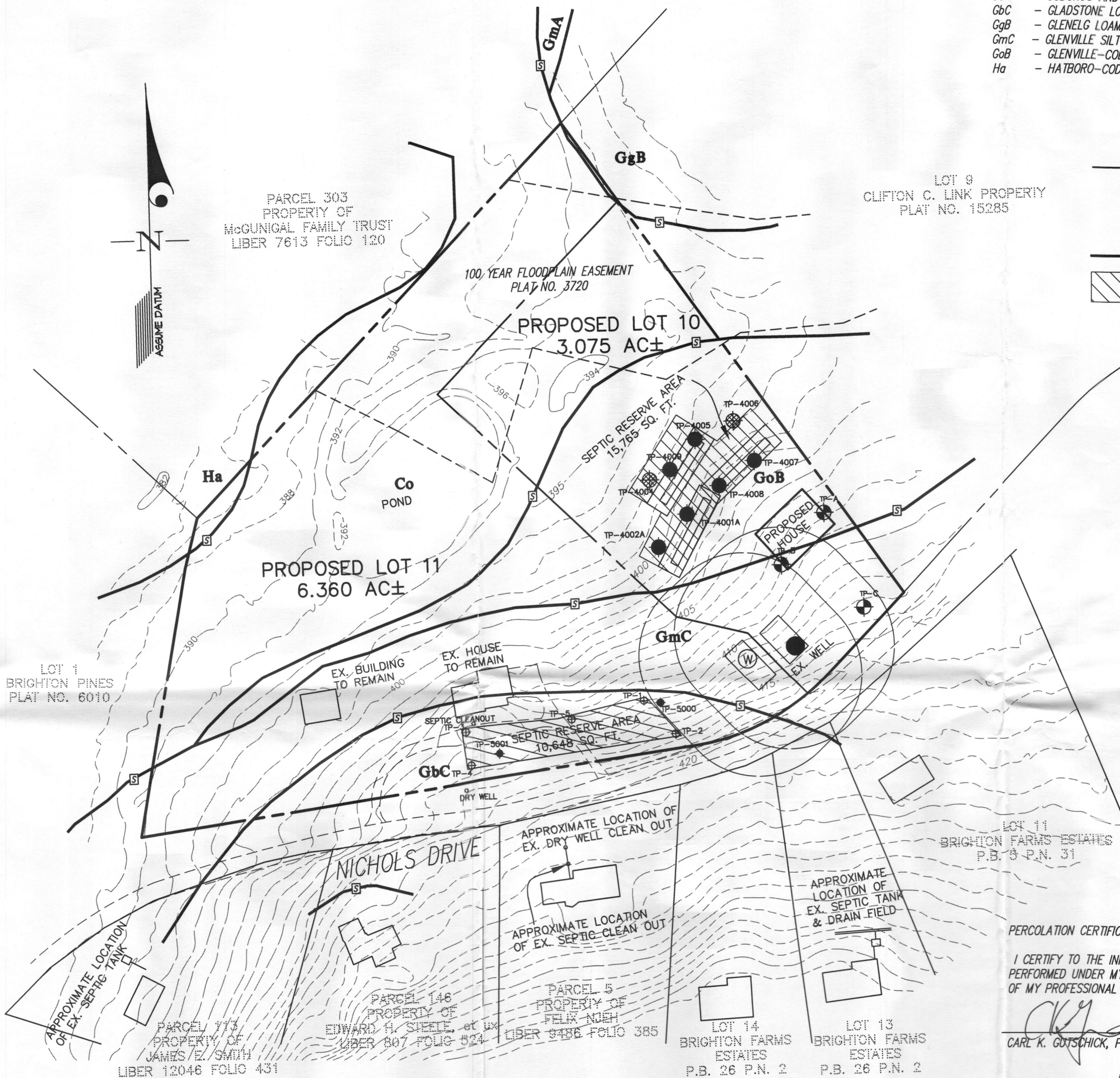
Co	- CODORUS AND HATBORO SILT LOAMS, 0 TO 15 PERCENT SLOPES
GbC	- GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES
GgB	- GLENELG LOAM, 3 TO 8 PERCENT SLOPES
GmC	- GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES
GoB	- GLENVILLE-CODORUS SILT LOAMS, 0 TO 8 PERCENT SLOPES
Ha	- HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES

LINE TYPES

	SOILS BOUNDARY
	EXISTING WELL
	PROPOSED WELL
	PROPERTY LINE
	SEPTIC RESERVE

LEGEND:

	PREVIOUS TEST PIT, FAILED, (3/11/92)
	PREVIOUS TEST PIT, PASSED, (4/25/76)
	TEST PIT PASSED, (4/20/12)
	TEST PIT FAILED, (4/20/12)



PERCOLATION CERTIFICATION
I CERTIFY TO THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED UNDER MY DIRECT SUPERVISION AND IS CORRECT, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

Carl K. Gutschick
CARL K. GUTSCHICK, P.E.
10-11-12

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED, OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO.: 12975, EXPIRATION DATE: MAY 26, 2014.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS


B. Wilson for Maura Rosman 10/26/2012
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT DATE

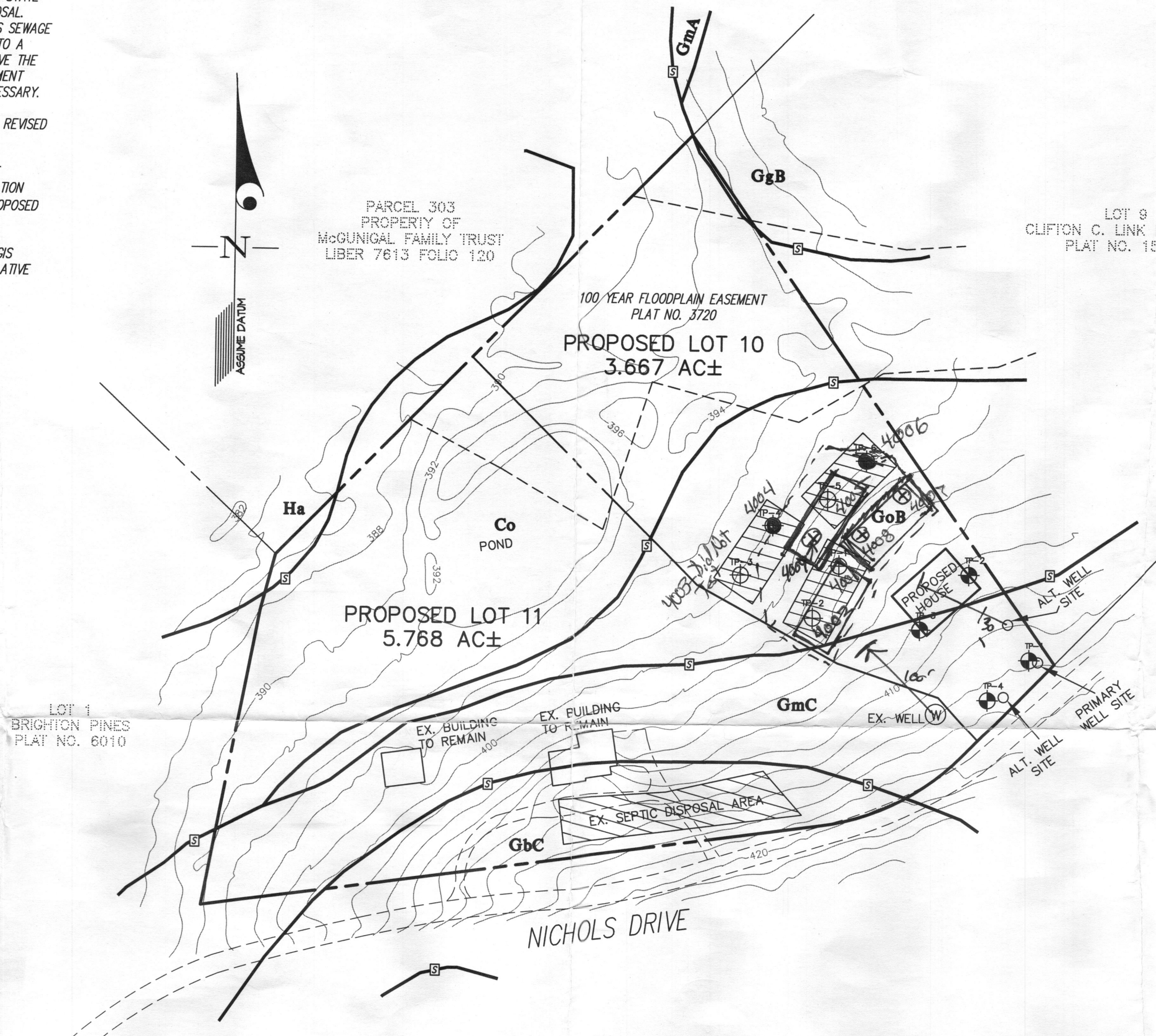
GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	PREPARED FOR: DONALD S. & JUDITH ANN MARIE PROIA 13630 NICHOLS DRIVE CLARKSVILLE, MD 21029 PHONE: 301-854-0244	SCALE	ZONING	PERCOLATION CERTIFICATION PLAN CLIFTON C. LINK PROPERTY LOT 1 PLAT NO. 3720	G. L. W. FILE No.
		1"=100'			DATE
		MARCH 2012	34 - 9		SHEET
					1 OF 1

CLARKSVILLE ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

GENERAL NOTES:

1.  THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
2. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
3. ALL EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION AND WELLS WITHIN 200' DOWN GRADIENT OF THE EXISTING AND PROPOSED SEPTIC SYSTEM AND SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
4. THE TOPOGRAPHY OF THIS PLAT IS TAKEN FROM HOWARD COUNTY GIS TOPOGRAPHY AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THIS PROPERTY.
5. BOUNDARY INFORMATION IS BASED ON AVAILABLE RECORDS.
6. PROPERTY TABULATION:
A. TAX PARCEL 368
B. TOTAL ACREAGE: 9.435 AC.
7. THE EXISTING WELL IS TO REMAIN.
8. THE EXISTING SEPTIC SYSTEM IS TO REMAIN.



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT DATE



PERCOLATION CERTIFICATION





I CERTIFY TO THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

CARL K. GUTSCHICK, P.E.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED, OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO.: 12975, EXPIRATION DATE: MAY 26, 2012.

- LEGEND:**
- # 2 TP  PREVIOUS TEST PIT
 - # 1 TP  PIT NOT DUG

- LINE TYPES**
-  SOILS BOUNDARY
 -  EXISTING WELL
 -  PROPERTY LINE
 -  DENOTES 25% AND GREATER SLOPE

- SOIL TYPES**
- Co - CODORUS AND HATBORO SILT LOAMS, 0 TO 15 PERCENT SLOPES
 - GbC - GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES
 - GgB - GLENELG LOAM, 3 TO 8 PERCENT SLOPES
 - GmC - GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES
 - GaB - GLENVILLE-CODORUS SILT LOAMS, 0 TO 8 PERCENT SLOPES
 - Ha - HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES

L:\CADD\DRAWINGS\12004\PLANS BY GLW\PERC PLAN\12004 PERC PLAN-1.dwg, PLOTTED: 4/4/2012 1:00 PM, LAST SAVED: 3/28/2012 2:52 PM, PLOTTED BY: Paul Clark

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	PREPARED FOR: DONALD S. & JUDITH ANN MARIE PROIA 13630 NICHOLS DRIVE CLARKSVILLE, MD 21029 PHONE: 301-854-0244	SCALE	ZONING	PERCOLATION CERTIFICATION PLAN CLIFTON C. LINK PROPERTY LOT 1 PLAT NO. 3720	G. L. W. FILE No.
		1"=100'			DATE
		MARCH 2012	34 - 9	CLARKSVILLE ELECTION DISTRICT No. 5	SHEET
				HOWARD COUNTY, MARYLAND	1 OF 1

GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- ALL EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION AND WELLS WITHIN 200' DOWN GRADIENT OF THE EXISTING AND PROPOSED SEPTIC SYSTEM AND SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- BOUNDARY INFORMATION IS BASED ON AVAILABLE RECORDS.
- PROPERTY TABULATION:
A. TAX PARCEL 368
B. TOTAL ACREAGE: 9.435 AC.
- THE EXISTING WELL IS TO REMAIN.
- THE EXISTING SEPTIC SYSTEM IS TO REMAIN.
- PREVIOUS TEST PIT LOCATIONS ARE SHOWN AS INDICATED IN THE HEALTH DEPARTMENT RECORDS FOR THE SUBJECT PROPERTY.
- TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS (ONE-FOOT INTERVALS IN AREA FOR SAND MOUND LOCATION) AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
- ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS UP HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- THE NEW WELL WHICH WILL SERVE 13630 NICHOLS DRIVE (LOT 11) MUST PASS POTABILITY TEST FOR ISSUE OF ICOP PRIOR TO HEALTH DEPARTMENT SIGNATURE OF FINAL PLAT MYLAR.
- THE SAND MOUND AREAS DELINEATED AND IDENTIFIED ON PROPOSED LOT 10 ON THIS PLAN MUST BE STAKED BY A SURVEYOR AND A FIELD VISIT MADE BY THE HOWARD COUNTY HEALTH DEPARTMENT TO VERIFY THE AREAS HAVE NOT BEEN IMPACTED, PRIOR TO FINAL PLAT APPROVAL AND FOR SUBSEQUENT BUILDING PERMIT APPROVAL. IN ADDITION, THESE AREAS MUST BE PROTECTED BY A FIXED BARRIER AT ALL TIMES DURING DEMOLITION, GRADING, AND CONSTRUCTION ACTIVITIES. THEREAFTER PROTECTIVE MEASURES SHOULD BE IMPLEMENTED TO PROTECT THESE AREAS FROM EROSION AND ENCROACHMENT BY WHEELED VEHICLES. SUBSEQUENT BUILDING PERMIT APPLICATIONS MAY BE DENIED SHOULD THE SAND MOUND AREAS BE EVALUATED AND FOUND TO BE UNSATISFACTORY FOR THE INTENDED USE. IN ADDITION, A SUPPLEMENTAL SITE PLAN WITH ALL OF THE NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM WILL BE REQUIRED PRIOR TO THE RELEASE OF THE BUILDING PERMIT (IF APPLICABLE) AND SEPTIC SYSTEM INSTALLATION PERMIT.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- PRIOR TO SUBMITTAL OF FINAL PLAT MYLAR, THE EXISTING DRY WELL SERVING THE RESIDENCE AT 13630 NICHOLS DRIVE WILL BE PROPERLY ABANDONED. A DISTRIBUTION BOX IS TO BE INSTALLED, CONNECTING TO THE EXISTING TRENCHES. THE HEALTH DEPARTMENT MAY APPROVE THE SUBDIVISION WHEN THE ATTENDING ENVIRONMENTAL SANITARIAN APPROVES THE INSTALLATION OF THE DISTRIBUTION BOX AND THE ABANDONMENT OF THE DRY WELL.
- THE EXISTING DRIVEWAY SERVING THE RESIDENCE AT 13630 NICHOLS DRIVE IS PARTIALLY WITHIN THE BOUNDARY OF THE SEPTIC RESERVE AND MAY BE DAMAGED IF TRENCHES ARE REQUIRED TO BE INSTALLED IN THE SAME SPACE.

SOIL TYPES

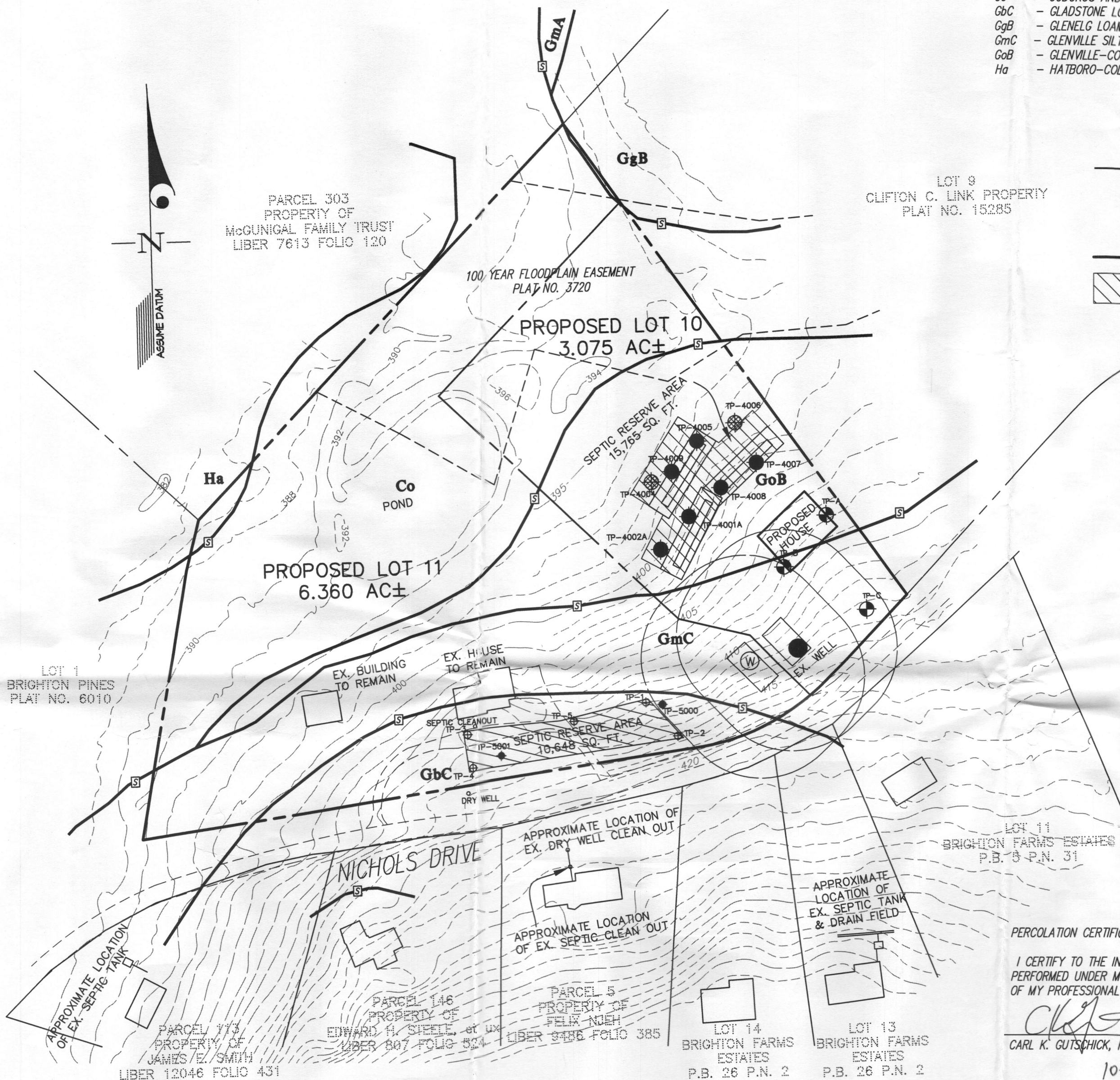
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LINE TYPES

	SOILS BOUNDARY
	EXISTING WELL
	PROPOSED WELL
	PROPERTY LINE
	SEPTIC RESERVE

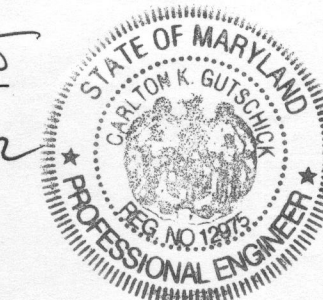
LEGEND:

	PREVIOUS TEST PIT, FAILED, (3/11/92)
	PREVIOUS TEST PIT, PASSED, (4/25/76)
	TEST PIT PASSED, (4/20/12)
	TEST PIT FAILED, (4/20/12)



PERCOLATION CERTIFICATION
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Carl K. Gutschick
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

B. Wilson for Maurya Rossman 10/26/2012
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT DATE 10/26/2012

L:\CADD\DRAWINGS\12004\PLANS BY GLW\PERC PLAN\12004 PERC PLAN-6.dwg, PLOTTED:10/11/2012 7:46 AM, LAST SAVED:10/11/2012 7:45 AM, PLOTTED BY: Paul Clark

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-999-2524 FAX: 301-421-4186	PREPARED FOR: DONALD S. & JUDITH ANN MARIE PROIA 13630 NICHOLS DRIVE CLARKSVILLE, MD 21029 PHONE: 301-854-0244	SCALE	ZONING	PERCOLATION CERTIFICATION PLAN CLIFTON C. LINK PROPERTY LOT 1 PLAT NO. 3720		G. L. W. FILE No.
		DATE	TAX MAP - GRID			12004
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						1 OF 1